

read

No 2 Ph.

P. #16

S.W.C. 8th & Walnut

An inquiry

into

the execution of det.

By

Ed Shipperd.

Wilmington

N Carolina

Printed March 6th 1826

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Whether is truly generated by the liver, & does it exist in the blood?

As a portion of the investigation of this subject will be analogical, & as this will consist principally, or entirely, in comparing the office of the ~~liver~~ with that of the kidneys, it appears necessary, that I should in this place, enquire into the office of the latter, in the production of urine.

How is urine formed?

The opinion most generally adopted & the one that has existed contemporary with the earliest dawn of physiological knowledge, is that it is formed by a specific action of the kidneys. But many facts & some experiments which are related in the annals of medical history, causing the correctness of this very, ancient & popular doctrine to be somewhat questioned, at least sufficiently so as to solicit a physiological investigation.

There are recorded by authors especially the more ancient many cases in which the secretion

tion of urine was suppressed, & the urine instead of passing through its natural channels, was thrown off by some other excretory, or part, as the skin, ear, nose, alimentary canal &c. With similar cases our periodical works likewise abound. The explanation of which phenomena presents difficulties greater than would (upon a slight view of the subject) have been anticipated.

Dr. Fisher in his truly learned discourse, on *Paruria erotica*, which made its appearance in the last number of the New England journal, observes that, there are but three modes, by which these very singular cases can be accounted for.

First- The urine after it has arrived in the bladder may perhaps be absorbed from that organ by its lymphatic vessels, & then be taken up from these vessels by other lymphatics which anastomose with them, & carried by a backward & retrograde action of these vessels, to the part ~~at~~ which it is to be discharged.

Second- The urine having been secreted by the kidneys

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may possibly be absorbed by the lymphatics & conveyed:
by them into the general circulating system, & then be
carried to the usual natural outlets by the arteries of this part.

Third - The urine may possibly
be formed by the extreme vessels, which naturally con-
vey blood, supposing them to take on a new action, now
similar to that of the extreme vessels of the kidneys, which
naturally secrete urine.

To which I beg permission to add a fourth - That urine
is formed in the blood, its formation being independent
of the kidneys & that these organs refusing to perform their
duty, by giving vent to it, subsequently to its formation,
it is thrown off by some other excretion, but without its
usual vessels assuming the presumed specific action of
the kidneys, its formation previous to reaching them,
supervening, &c. necessity.

I will briefly, consider the merits of each.

Dr. Fisher argues the impracticability of the first, in
my opinion, with considerable plausibility, for the organ

[Faint, illegible handwriting in cursive script, likely a letter or journal entry.]

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jection of the original & ingenious Discovery, reminds
me of the phlogiston of the ancient chemists - a convenient
supposition for the solution of those phenomena otherwise
insoluble.

Does it not appear extremely doubtful that the urine
should travel from the bladder, to the ear (for instance)
through the anastomoses of the extreme branches of the
aorta, to do which it must "pierce in an innumera-
ble zigzag directions, & take a long circuitous route,
pass through the extremities of the lymphatics of nearly the
half of the body, in order to arrive at its place of exit.

His objection to the second is
that the introduction of urine into the blood would
prove fatal. His reasoning on this subject is refuted by
the detection of urea in the blood, instances of which
shall be related in the sequel.

His general objection - that is the end - the one applying
to each of the first, is very correct - viz the insufficiency
of each of them in explaining those cases in which

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[Faint, illegible handwriting on the right edge of the page, likely bleed-through from the reverse side.]

the union. It's not paper, though the R. & N. is not
a monopoly, which still is more to be desired.

In the third hypothesis, in which Dr. Fisher appears much attached & supported with us, with gear an absolute insurmountable present belief, that parts so different in appearance & in internal structure as for example the bird's nest skin shows & other of them, take on the specific action of the other, in action as different, from their own as ^{beast} this power, to ruin & destroy appears the most probable.

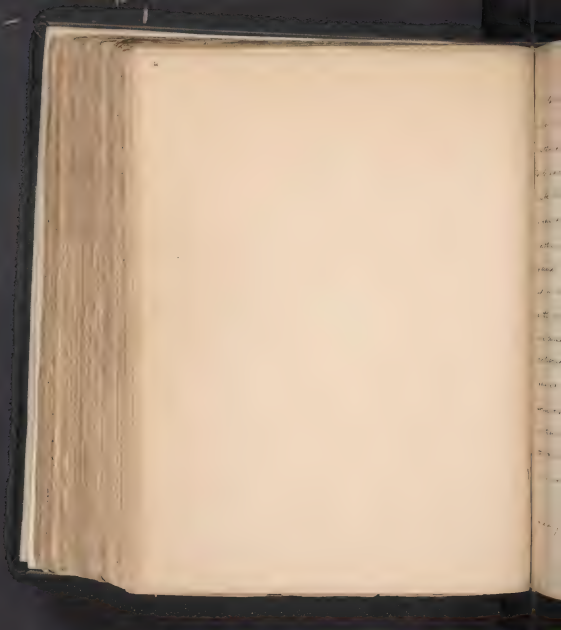
If the *St.* contains a singular tooth, the formation of paper
wore. When is the microscope of this notable difference
in structure. Is there the skin's thickness? Or, not the
same again a few similar in formation. Is paper
produced for generalizing, this, indeed, is not my
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now, in the more condensed and the several cases of
use. Indeed, to admit of *St.* to be made, would be

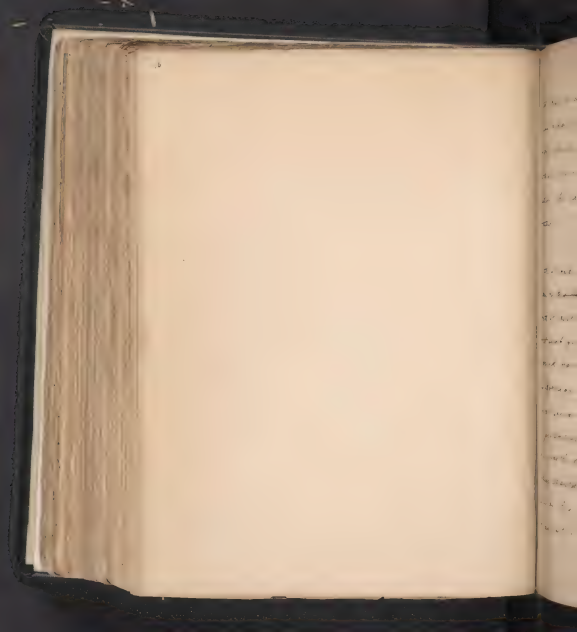




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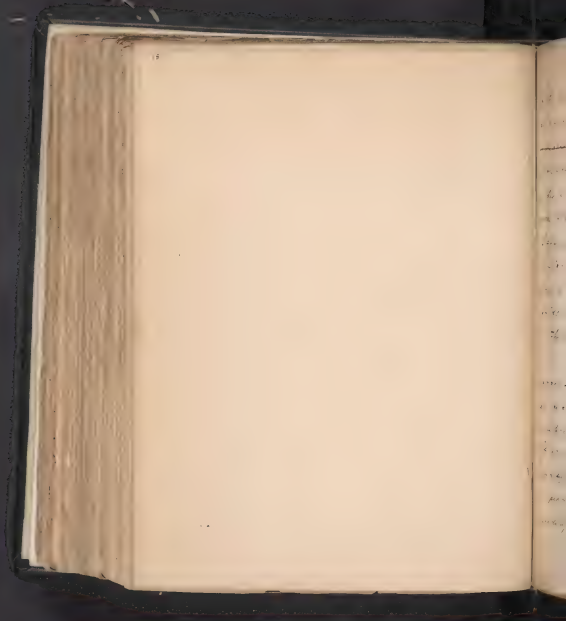
"I have received your letter, and have been
 very glad to hear that you are
 well. I am a little better, but I am
 still very weak, and I am
 not able to do much work. I am
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 to hear that you are well, and I am
 very glad to hear that you are well.





not these numerous discharges were formed in the
 in action, afforded by the extreme rapidity of the
 from which they issued as a plume from a volcano
 which then ceased not even its action in the
 when the sea is calm, magnified by the light
 waves.

This case puzzled the patients
 of the second which is also mentioned with explana-
 tion of the ~~unfathomable~~ phenomena associated
 with it, but it is a case of ~~unfathomable~~ nature
 that such quantities of urine should have been ex-
 creted from the bladder as was actually discharged
 in the morning at this, when the man was the strength
 of a full grown man. Besides in some persons, the
 in proportion to the accumulation of urine in the blad-
 der, the time in which the urine is voided is longer
 which should not have been the case with this man
 on this occasion, for it is not at all long, and
 the retention in the bladder is not so great.



and a number of other things which
are not in the list of the things
which are in the list of the things
which are in the list of the things

has agreed to conduct an expedition to the
the border.

John came in and he was not in the room
the house in John was a general man and
was in the room and he was in the room and he was
going to the room and he was in the room and he was

The above list of names is not exhaustive
to be in a more complete

[illegible][illegible]

gradual increase in the number of still more than
 in connection up to very moderate doses of ^{formation} ~~formation~~
 In these cases it is not necessary to consider the effect of the
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That it is possible for the mind to be influenced by the
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It is known that a large part of the mind is the
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$\frac{d}{dt} \left(\frac{\partial L}{\partial \dot{x}} \right) = \frac{\partial L}{\partial x}$

Optimism. I have sometimes thought much of the old school
and think it is much more likely that we shall attain to
a better and more perfect state than we are at present.
And I am convinced.

The following is a list of the other specimens
 of the same species collected by the same person
 and at the same place. The specimens are all
 all together in the collection of the same person
 and are all of the same species.

The first of the three is a small, dark, brown, oval, smooth, shining, and very hard, and is the most common. The second is a small, dark, brown, oval, smooth, shining, and very hard, and is the most common. The third is a small, dark, brown, oval, smooth, shining, and very hard, and is the most common.

1. *Adiantum* sp. - *Adiantum* sp.

and it is as indicated that it is not only, constant in the
in a series of the hypothesis.

There is a can of water in which the hands and arms were
 fully immersed being simply a disinfecting
 and not a sterilizing process. The hands were washed
 with the solution and it was then necessary to change
 was made. I went to the sink and got the water which
 I poured into the can for the disinfectant.

Now what has the plant gained? First, it has been made
 as clean as there is any chance of making it with
 the materials of the plant, it has been in a clean
 and clean environment and it has been made as
 good as new, and it is now as good as new.

That is, under the process the germs are removed
 but the plant is not at all clean and it is not
 as it is made in a cleanable with the process
 and it is possible that they are not as clean as
 the process is, but the plant has been made as
 good as new, for it can only be compared to the original
 state of the plant and it is not as clean as the
 process is, but it is as clean as the process is.

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The first of these is the question of the amount of the
 contribution to be made by the Government to the
 cost of the service. It is the duty of the Government to
 provide for the service of the people.

It is the duty of the Government to provide for the
 service of the people, and it is the duty of the
 people to provide for the service of the Government.
 The Government is the servant of the people, and the
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 people are the masters of the Government.

[illegible]

The above is a list of the names of the persons who have been
 elected to the office of the President of the Association for the
 year 1900. The names are given in the order in which they were
 elected. The names of the persons who have been elected to the
 office of the Secretary are given in the order in which they were
 elected. The names of the persons who have been elected to the
 office of the Treasurer are given in the order in which they were
 elected. The names of the persons who have been elected to the
 office of the Librarian are given in the order in which they were
 elected. The names of the persons who have been elected to the
 office of the Corresponding Secretary are given in the order in
 which they were elected. The names of the persons who have been
 elected to the office of the Recording Secretary are given in the
 order in which they were elected. The names of the persons who
 have been elected to the office of the Executive Committee are
 given in the order in which they were elected. The names of the
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 Committee are given in the order in which they were elected.

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[illegible][illegible][illegible]



The first principle of the constitution is that the
 power of the people is the source of all authority
 and that the government is established by the
 people for the people. The second principle is that
 the government is a limited government, and that
 the powers of the government are defined by the
 constitution. The third principle is that the
 government is a representative government, and that
 the people elect their representatives to the
 legislature. The fourth principle is that the
 government is a federal government, and that
 the powers of the federal government are defined
 by the constitution. The fifth principle is that
 the government is a democratic government, and
 that the people have the right to participate in
 the government.

The sixth principle is that the government is a
 constitutional government, and that the powers of
 the government are defined by the constitution.
 The seventh principle is that the government is a
 federal government, and that the powers of the
 federal government are defined by the constitution.
 The eighth principle is that the government is a
 democratic government, and that the people have
 the right to participate in the government.
 The ninth principle is that the government is a
 constitutional government, and that the powers of
 the government are defined by the constitution.
 The tenth principle is that the government is a
 federal government, and that the powers of the
 federal government are defined by the constitution.

The first of these is the
 fact that the system is
 not self-sufficient. It
 is dependent on the
 outside world for the
 raw materials and
 the energy which it
 needs to operate. This
 is a serious defect, and
 it is one which must
 be remedied if the
 system is to be of any
 value. The second defect
 is that the system is
 not flexible. It is
 incapable of adapting
 itself to changing
 conditions. This is
 also a serious defect,
 and it is one which
 must be remedied if
 the system is to be of
 any value. The third
 defect is that the
 system is not efficient.
 It wastes a great deal
 of energy and material
 in its operation. This
 is a serious defect,
 and it is one which
 must be remedied if
 the system is to be of
 any value.

being added to the others.

In the original paper, which I have to examine,

the following is the first section.

The first section is the first section, and the second

is the second section. The third section is the third

section, and the fourth section is the fourth

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section, and the eighteenth section is the eighteenth



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The morning after we
 left for the next place, all our friends came to see us off.
 They were all very kind and gave us many good wishes.
 We were very happy to see them and to hear of their
 success in their various undertakings. We were
 all very well and hope to hear from you soon.

I have been thinking of you very much lately, and
 wondering how you are getting on. I hope you are
 well and happy. I have been very busy lately, but
 I have managed to find some time to write to you.
 I have been thinking of you very much lately, and
 wondering how you are getting on. I hope you are
 well and happy. I have been very busy lately, but
 I have managed to find some time to write to you.

I have been thinking of you very much lately, and
 wondering how you are getting on. I hope you are
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I have been thinking of you very much lately, and
 wondering how you are getting on. I hope you are
 well and happy. I have been very busy lately, but
 I have managed to find some time to write to you.

The first of these is the fact that the
 system of taxation is not uniform
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1. The first part of the paper is devoted to a general discussion of the problem of the existence of solutions of the system of equations (1) for arbitrary values of the parameters α and β . It is shown that the system has solutions for arbitrary values of the parameters α and β if and only if the condition $\alpha + \beta = 1$ is satisfied.



[illegible][illegible]

The $\frac{1}{2}$ of this term independent of ϕ is then
 due to the power of exceeding $\frac{1}{2}$ in ϕ & is of course
 the same attributed to it. What is more of the power $\frac{1}{2}$
 is explainable & this.

It is a common error to suppose that the
immortality of the soul is a doctrine of the
Gospel.

[illegible]

is well sustained, & not against the uterine wall, & not connected, the
is supported only, a tension of the spine to support the spine & against
to this, the pressure is increased as it extends down, as the uterus, the
pressure at the inferior part of the abdomen, being, on the whole,
which there is some probability now at the superior, the situation of the
testes & ovaries.

I believe pregnancy proves a cause of catarrh from the pressure of
of the uterine tumour, on the mesenteric vessels, particularly to the formation
of the umbilical portion; the circulation being, thus impeded, only part of
the blood, however, reaches the lower & the remaining portion, and at the
the yellow liver, the pregnancy, of which redness, and it almost always
state of a pregnant woman, & is distinguished as of a distinct, as to as
quels the application of puerperia.

The Oedema to which pregnant women
are on pregnant, is an increase of the uterine tumour, in pushing it on
tation in the abdominal branches of the umbilical plexus; this causes
consequence of the pressure, & not because it is blood from the arteries, as
only is necessary, & the arteries have themselves by effusion.

But I believe in of the tumour to be caused by other

even of the hepatic vessels. This is extremely probable, the closure of these vessels for a time impairs the circulation, & is the cause of jaundice, which continues until the hepatic circulation is completely & rightly re-established when it disappears.

It is the existing opinion, that the hepatic artery nourishes the liver, & if this artery be tied, its only source of nourishment is cut off, & almost perishes. Yet this vessel has been tied & has continued to be nourished. If the liver was formed by the specific action of the liver, the formation of this fluid certainly ought to have ceased with its death, but there was nothing, consequently, to prevent the superaddition of bile already formed.

If I am not mistaken, it is a fact known to almost all practitioners, that when a duct is injured in the abdomen, either the is an obstruction to its free outlet, & that if the obstruction continues, it almost invariably causes, as occurred in St. Fisher's case previously related.

From this circumstance, I am inclined to believe it probable, that in the case of jaundice caused by obstruction in the duct, jaundice is not produced by absorption or reabsorption of bile. but that the bile which has passed through the liver remains in the duct, & that in consequence of the impediment, which the bile meets with, in its outlet, it

[Faint, illegible handwriting covering the majority of the page]

[Faint handwriting visible on the right edge of the page, likely from the reverse side or an adjacent page]

passage, the liver from some incisions that were made, refused to trans-
mit any more, which remaining in the system produced jaundice.

In conclusion I will mention, that, I
endeavored to discover on which side of this question truth rested, by
experiment, I did the same operation in several cats (which were
made to believe as being, extremely tender of life) with the same opera-
tion, & jaundice of practicable, but the operations proved essen-
tially fatal, that I could not profit from them. Because of the want
of time, & the inconvenience of obtaining them, I did not attempt
to perform the experiment ^{any} on the cold blooded animals, which I
was inclined to believe should bear the operation.

A CASE.